

NATHAN SMITH BSc
Senior Botanist/Restoration and BioBanking



Professional Memberships	<ul style="list-style-type: none"> • Ecological Society of Australia • Ecological Consultants Association of NSW 																
Qualifications	<ul style="list-style-type: none"> • Bachelor of Science (Resource & Environmental Management) - Macquarie University • Certificate IV Bushland Regeneration - School of Horticulture, Northern Sydney TAFE • Accredited BioBanking Assessor - Ryde TAFE • Statement of Attainment, Spatial Information Systems - Sydney Institute of Technology 																
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Career Overview	<p>Nathan has 13 years experience in the fields of natural area management and ecological consulting. Nathan has managed bush regeneration and mine site rehabilitation projects, vegetation management plans, ecological monitoring surveys, vegetation surveys and mapping, opportunities and constraints assessments, terrestrial and aquatic ecological assessments, reviews of environmental factors and impact assessments. He has managed large projects at both the State and Commonwealth level of assessment including Species Impact Statements, Referrals and Part 3A assessments. A key strength of Nathan's is his exposure to a diverse range of environments involving remote area ecological survey and assessment. In particular he has carried out and managed ecological surveys in Western Cape York, North-eastern NSW, the NSW Central Coast, the Illawarra and Sydney Catchment Area, NSW Western Slopes and Plains, the New England Tableland and also Victoria. In particular, Nathan is experienced in ecological assessment of subsidence related impacts due to long wall mining. He has also been involved heavily in some of the very first Biobanking assessments.</p> <p>As a project manager, Nathan is skilled in developing scopes of work for ecological assessments and restoration plans, client liaison, resource allocation, scheduling, cost estimation, report writing, technical review and staff supervision. Importantly, Nathan has a well-rounded capability in applying the DECC survey guidelines and Biobanking Methodology within budgetary and time constraints. He has also been involved in several high profile and controversial projects requiring sensitivity towards various stakeholders.</p>																
Professional Vision	<p>To respond innovatively to the challenge of facilitating net positive outcomes for Australia's unique biodiversity and ecosystems in a climate of development and resource use pressure. My hope is to illustrate to industry and the broader community that cost-effective sustainable outcomes are achievable through effective planning and re-direction of resources to on-ground biodiversity management.</p>																
Skills	<ul style="list-style-type: none"> • Environmental Impact Assessment (NSW, Qld, Commonwealth) • Habitat restoration and mine site rehabilitation • Biobanking and offsetting • Vegetation management • Ecological survey, monitoring and analysis • Habitat condition assessment • Vegetation survey and mapping • Project management and delivery • Stakeholder liaison, training and technical advice to government, NGO, volunteer and private organisations • Report writing and technical review • Staff supervision and training • Management of the integration of cultural heritage and aquatic ecology in assessments 																

Key achievements/ flagship projects

- Sapphire Wind Farm Part 3A and Biobanking Ecological Assessment, Kings Plain NSW.** *
Project Manager and Ecologist - Ecological Survey Design, Vegetation Mapping and Validation, Flora Quadrats, Threatened Flora Random Meanders, Diurnal Bird Surveys, AnaBat, Spotlighting, Call Playback and Fauna Habitat Assessment. Nathan is an accredited Biobanking Assessor and utilised the Biobanking Assessment Methodology under Part 3A to calculate suitable offsets and credit requirements.
- Brownlow Hill Biobanking Assessment, Brownlow Hill NSW.** *
Botanist and Accredited Biobanking Assessor - Biometric Vegetation Mapping, Survey Design, Site Management Plan and Costing of Management Actions, Biobank Report, Credit Calculations and Pricing.
- Monitoring of Native Vegetation Condition and Pastures: Kestrel Mine Longwall Surface Monitoring Program.** *
Botanist and Management of Field Survey - Native vegetation survey and condition assessment including on-going recommendations for vegetation management, monitoring of pastures utilising remote techniques and biomass collection.
- Baseline Ecological and Cultural Heritage Assessment of the Northern Exploration Drilling Area (Musgrave), Weipa Region, QLD.** **
Ecologist - Ecological Survey Design, Manager of Field Surveys, Vegetation Mapping and Validation, Flora Quadrats, Threatened Flora Random Meanders, Diurnal Bird Surveys, Herpetological Surveys.
- Targeted Surveys and Impact Assessment for the Proposed Pacific Highway Upgrade: Woodburn to Ballina, North Coast NSW.** **
Field Survey Manager and Botanist - Survey Design, Vegetation Mapping and Validation, Flora Quadrats, Threatened Flora Random Meanders, opportunistic fauna observations.
- Ecological Monitoring of Subsidence Related Impacts for the Dendrobium Coal Mine (Areas 1 and 2) within the Lake Cordeaux Catchment, Cordeaux Catchment Area NSW.** **
Botanist - Survey Design, Manager of Field Surveys, Vegetation Mapping and Validation, Flora Monitoring Quadrats.
- Rehabilitation of Disused Surface Infrastructure Sites. Corrimall Number 2 Shaft and Pump Site, Port Kembla Number 2, Nebo 1 and 2 Shaft Site, Wongawilli Shaft Site.** **
Project Manager - Vegetation Mapping and Condition Assessment, Development of Rehabilitation Plan.
- Dendrobium Coal Mine Area 2 Ventilation Shaft Site Vegetation Management Plan Cordeaux Catchment Area NSW.** **
Field Survey Manager - Vegetation Mapping and Condition Assessment, Development of Rehabilitation Plan.
- REF's and Impact Assessments for Vegetation Clearing Associated with Geotechnical Investigations in the Cordeaux and Avon Catchments, Wollondilly and Illawarra districts NSW. Avondale Colliery, Gujarat No.1 Colliery, Dendrobium Mine Areas 1, 2 and 3, Appin Colliery.** **
Field Survey Manager and Botanist - Ecological Survey Design, Coordination of Field Surveys (Cultural and Natural), Vegetation Mapping and Validation, Threatened Flora Random Meanders.
- Pre and Post Mining Ecological and Cultural Heritage Assessments of Subsidence Impacts due to Longwall Mining, Wollondilly and Illawarra districts NSW. Elouera Colliery, Dendrobium Mine, West Cliff Colliery.** **
Field Survey Manager and Botanist - Ecological Survey Design, Manager of Field Surveys, Vegetation Mapping and Validation, Threatened Flora Random Meanders.
- Entrance Road Duplication Terrestrial and Aquatic Ecological Impact Assessment, Central Coast NSW.** **
Field Survey Manager and Botanist - Ecological Survey Design, Manager of Field Surveys, Vegetation Mapping and Validation, Threatened Flora Random Meanders, management of Tree Survey.
- Species Impact Statement for the Proposed Area 3 West Cliff Coal Wash Emplacement, Appin NSW.** **
Field Survey Manager and Botanist - Botanical Survey Design, Vegetation Mapping and Validation, Flora Quadrats, Threatened Flora Random Meanders.
- Species Impact Statement and EPBC Referral for the Proposed National Highway Link F3 to Branxton, the Associated Electricity Adjustments and Other Infrastructure, Lower Hunter region, NSW.** **
Field Survey Manager and Botanist - Survey Design, Vegetation Mapping and Validation, Flora Quadrats, Threatened Flora Random Meanders. **

* Project completed at Eco Logical Australia

** Project completed at Biosis Research Pty. Ltd.